AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. 20. (Canceled)
- (Currently Amended) An implantable electrode comprising:
 an electrode body having a substrate surface; and
 - a surface coating on said substrate surface,

said surface coating comprised of a gradient composition, said gradient composition further comprised of a plurality of alternating layers of including a plurality of platinum layers and a plurality of iridium oxide layers.

- 22. (Original) The implantable electrode of claim 21, wherein said substrate surface is comprised of platinum gray.
- 23. (Canceled)
- (Original) The implantable electrode of claim 21, wherein said substrate surface is a rough surface.
- (Original) The implantable electrode of claim 24, wherein said rough surface is a sandblasted surface.
- (Original) The implantable electrode of claim 24, wherein said rough surface is an
 abraded surface.
- 27. (Canceled)

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- 28. (Original) The implantable electrode of claim 21, wherein said gradient composition is comprised of electroplated material.
- 29. (Previously Presented) The implantable electrode of claim 21, wherein said gradient composition is an approximately linear gradient from essentially pure platinum to essentially pure iridium oxide.
- 30. (Previously Presented) The implantable electrode of claim 21, wherein at least one layer in said plurality of alternating layers is comprised of a fraction of platinum and a complementary fraction of iridium oxide.
- 31. (Previously Presented) The implantable electrode of claim[[s]] 21, wherein said gradient composition varies stepwise in composition.
- 32. (Previously Presented) The implantable electrode of claim 21, wherein the platinum in the gradient composition is platinum gray.
- 33. (Previously Presented) The implantable electrode of claim 21, wherein the substrate surface is made of a biocompatible material with platinum or titanium conductive traces.

34. - 40. (Canceled)

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